



PATENT APPLICATION NO. 10/553,670  
ATTORNEY DOCKET: 38523.000156

1645/IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 10/553,670 Confirmation No.: 1557  
Applicant : Gary W. Zlotnick, et al.  
Filed : October 17, 2005  
Title : Novel Immunogenic Compositions for the Prevention and Treatment of Meningococcal Disease  
TC/Art Unit : 1645  
Examiner: : *To Be Assigned*  
  
Docket No. : 38523.000156  
Customer No. : **21967**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants submit attached Form PTO-SB/08A (modified) for consideration and request the references cited therein be made of record by the U.S. Patent and Trademark Office in the above-captioned application.

Applicants would like to inform the Examiner of the existence of the following co-pending U.S. patent applications:

U.S. Patent Application No. 10/652,870 filed September 2, 2003, in the name Gary W. ZLOTNICK et al., entitled "NOVEL IMMUNOGENIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF MENINGOCOCCAL DISEASE" (attorney docket: 38523.000026); and

U.S. Patent Application No. 10/798,894 filed March 12, 2004, in the name Gary W. ZLOTNICK et al., entitled "NOVEL IMMUNOGENIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF MENINGOCOCCAL DISEASE" (attorney docket: 38523.000089); and

U.S. Patent Application No. 10/492,427 filed April 26, 2002, in the name Gary W. ZLOTNICK et al., entitled "NOVEL IMMUNOGENIC COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF MENINGOCOCCAL DISEASE" (attorney docket: 38523.000094).

Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted prior to issuance of a first Office Action. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

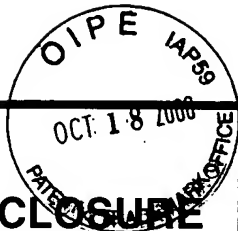
Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: October 18, 2006

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/553,670
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**U.S. PATENT DOCUMENTS**

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US 4376110	03-08-1983	David et al.	
	2.	US 4554101	11-19-1985	Hopp	
	3.	US 4650764	03-17-1987	Temin et al.	
	4.	US 4666829	05-19-1987	Glenner, et al.	
	5.	US 4797368	01-10-1989	Carter et al.	
	6.	US 4861719	08-29-1989	Miller	
	7.	US 4980289	12-25-1990	Temin et al.	
	8.	US 5124263	06-23-1992	Temin et al.	
	9.	US 5139941	08-18-1992	Muzyczka et al.	
	10.	US 5399346	03-21-1995	Anderson et al.	
	11.	US 5459127	10-17-1995	Felgner et al.	
	12.	US 5580859	12-03-1996	Felgner et al.	
	13.	US 5583038	12-10-1996	Stover	
	14.	US 5589466	12-31-1996	Felgner et al.	
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	17.	US 6130085	10-10-2000	Hamers et al.	

**FOREIGN PATENT DOCUMENTS**

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		Country Code:	Number - Kind Code (if known)				YES	NO
	18.	EP	0 125 023 A1	11-14-1984	Cabilly et al.			
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	20.	EP	0 173 494 A2	05-03-1986	Morrison et al.			

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	21.	EP	0 178 220 A2	04-16-1986	Jacob et al.			
	22.	EP	0 184 187 A2	06-11-1986	Kudo et al.			
	23.	EP	0 185 573 A1	06-25-1986	Perricaudet et al.			
	24.	EP	0 453 242 A1	10-23-1991	Breakfield et al.			
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	42.	WO	95/28494	10-16-95	Overell et al.			
	43.	WO	95/18863	07-13-1995	Behr et al.			
	44.	WO	95/21931	08-17-1995	Bazile et al.			
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<b>NON-PATENT LITERATURE DOCUMENTS</b>					
*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION		
			YES	NO	
	65.	MMWR (Morbidity And Mortality Weekly Report), Case Definitions for Infectious Conditions Under Public Health Surveillance, Recommendations and Reports, May 2, 1997, Vol. 46, No. RR-10			
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						YES	NO
	75.	COURTNEY, H. et al., 1994, Cloning, sequencing, and expression of a fibronectin/fibrinogen-binding protein from group A streptococci, <i>Infect Immun.</i> Vol. 62, No. 9, pp. 3937-46					
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	82.	ENG, J. K. et al., 1994, An approach to correlate tandem mass-spectral data of peptides with amino-acid-sequences in a protein database. <i>Am Soc Mass Spectrometry.</i> 5:976-89					
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			YES	NO
	83.	FISCHETTI, V. A. et al., Revised April 3, 1990, Conservation of a hexapeptide sequence in the anchor region of surface proteins from gram-positive cocci, <i>Mol Microbiol.</i> , Vol. 4, No. 9, pp. 1603-5		
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			YES	NO	
	93.	HANSKI, E. et al., December 1992, Expression of protein F, the fibronectin-binding protein of <i>Streptococcus pyogenes</i> JRS4, in heterologous streptococcal and enterococcal strains promotes their adherence to respiratory epithelial cells, <i>Infect Immun.</i> 60(12):5119-5125			
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			YES	NO
	102.	KUIPERS, O. P. et al., 1991. Improved site-directed mutagenesis method using PCR. <i>Nucleic Acids Res.</i> 19(16):4558		
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	106.	LUKASHIN, A. V. et al., 1998. GeneMark.hmm: new solutions for gene finding. <i>Nucleic Acids Res.</i> 26(4):1107-15		
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	109.	MATSUKA, Y. V. et al., Sept. 1999. Fibrinogen cleavage by the <i>Streptococcus pyogenes</i> extracellular cysteine protease and generation of antibodies that inhibit enzyme proteolytic activity. <i>Infect Immun.</i> 67(9):4326-33		
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			YES	NO
	111.	MCATEE, C. P. et al., 1998. Identification of potential diagnostic and vaccine candidates of <i>Helicobacter pylori</i> by "proteome" technologies. <i>Helicobacter</i> . 3(3):163-9		
	112.	MCATEE, C. P. et al., July 1998. Identification of potential diagnostic and vaccine candidates of <i>Helicobacter pylori</i> by two-dimensional gel electrophoresis, sequence analysis, and serum profiling. <i>Clin Diagn Lab Immunol</i> . 5(4):537-42		
	113.	MCATEE, C. P. et al., 1998. Characterization of a <i>Helicobacter pylori</i> vaccine candidate by proteome techniques. <i>J Chromatogr B</i> 714:325-33		
	114.	MEJLHEDE, N. et al., May 1999. Ribosomal -1 frameshifting during decoding of <i>Bacillus subtilis</i> cdd occurs at the sequence CGA AAG. <i>J. Bacteriol</i> . 181(9):2930-7		
	115.	MOLINARI, G. et al., April 1997. The fibronectin-binding protein of <i>Streptococcus pyogenes</i> , SfbI, is involved in the internalization of group A streptococci by epithelial cells. <i>Infect Of Immun</i> . 65(4):1357-63		
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			<b>YES</b>	<b>NO</b>		
	120.	NIZET, V. et al., July 2000. Genetic locus for streptolysin S production by group A streptococcus. <i>Infect. And Immun.</i> 68(7):4245-54				
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			YES	NO
	129.	PROFT, T. et al., January 4, 1999. Identification and Characterization of Novel Superantigens from <i>Streptococcus pyogenes</i> . <i>J Exp Med</i> . 189(1):89-101		
	130.	PUGSLEY, A. P., March 1993. The complete general secretory pathway in gram-negative bacteria. <i>Microbiol Rev</i> . 57(1):50-108		
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			YES	NO
	137.	SONNENBERG, M. G. et al., Nov. 1997. Definition of <i>Mycobacterium tuberculosis</i> culture filtrate proteins by two-dimensional polyacrylamide gel electrophoresis, N-terminal amino acid sequencing, and electrospray mass spectrometry. <i>Infect. And Immun.</i> 65(11):4515-24		
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	141.	TETTELIN, H. et al., March 10, 2000. Complete genome sequence of <i>Neisseria meningitidis</i> serogroup B strain MC58. <i>Science</i> 287(5459):1809-15		
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			YES	NO
	145.	YUTSUDO, T. et al., Sept. 1994. The gene encoding a new mitogenic factor in a <i>Streptococcus pyogenes</i> strain is distributed only in group A streptococci. <i>Infection and Immunity</i> . 62(9):4000-4004		
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	155.	Devereux, J. et al., A comprehensive set of sequence analysis programs for the VAX, <i>Nucleic Acids Research</i> , 12(1):387-(1984).		
	156.	ALTSCHUL, S. F. et al., Basic local alignment search tool, <i>J. Mol. Biol.</i> 215:403-410 (1990).		
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			YES	NO
	163.	DE, B. K. et al., Purification and characterization of Streptococcus pneumoniae palmitoylated pneumococcal surface adhesin A expressed in <i>Escherichia coli</i> , <i>Vaccine</i> 2000; 18(17):1811-21.		
	164.	ERDILE, L. F. et al, Role of attached lipid in immunogenicity of <i>Borrelia burgdorferi</i> OspA, (Jan. 1993) <i>Infection And Immunity</i> Vol. 61(1):81-90		
	165.	SNAPPER, C. M. et al., IL-3 and granulocyte-macrophage colony-stimulating factor strongly induce Ig secretion by sort-purified murine B cells activated through the membrane Ig, but not the CD40, signaling pathway. <i>The Journal of Immun.</i> 154:5842-50 (1995).		
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	171.	YAKUSHI et al., Lethality of the covalent linkage between mislocalized major outer membrane lipoprotein and the peptidoglycan of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , May 1997, 179(9):2857-62					
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	181.	SAMBROOK et al., <i>Molecular Cloning: A Laboratory Manual</i> , Cold Spring Harbour Lab Press, Cold Springs Harbor, NY, chapters 9 and 11, (1989).			
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	190.	SAMULSKI et al., Helper-free stocks of recombinant adeno-associated viruses: normal integration does not require viral gene expression. <i>J. Virol.</i> , 63(9):3822-3828 (1989).					
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Filing Date</b> October 17, 2005	
				<b>First Named Inventor</b> Gary W. ZLOTNICK et al.	
				<b>Art Unit</b>	
				<b>Examiner Name</b> Unassigned	
<b>Sheet</b>	19	<b>of</b>	21	<b>Attorney Docket Number</b> 38523.000156	
<b>NON-PATENT LITERATURE DOCUMENTS</b>					
*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION		
	199.	KUO et al., Efficient gene transfer into primary murine lymphocytes obviating the need for drug selection. <i>Blood</i> 82(3):845-852 (1993).	YES	NO	
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						YES	NO
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						YES	NO
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